

**Problems with the EU Membership
A European Identity Crisis**

Bernhard Bierschenk

2018

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**Copenhagen University
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Problems with the EU Membership A European Identity Crisis

Bernhard Bierschenk

Abstract The introduction begins with the biographical presentation of two European leaders, Angela Merkel (1954 and ongoing) and Margaret Thatcher (1925 – 2013). The initial remarks offered, imply a short review, which means an attribution of semantic properties. The purpose with the study is to provide an opportunity to realise the Vertex version of Perspective Text Analysis. Its self-referential property is part of the Agent-action-Objective [AaO] formalism, which is generating a manifold of symmetries. In its most fundamental sense, a thermodynamic study of the European identity crisis has shown that its core can be approached in strictly geometrical terms. The presented analysis is focussing on the essence of the produced dimensions of intention and orientation. Multiply stable states have shown that the dynamics in the flows and fusions graphs are organising themselves into several different state attractions. In extension, the application of the naming process has produced results that are manifested in conceptualised roots. For Merkel, the Intention root has become manifest in the *Spirit* concept while the dimension of Orientation is rooted in *Work Ethics*. For Thatcher the corresponding root of the dimension of Intention is *Overpowering* while the root of the dimension of Orientation concerns *Reshaping Power* for imperial purposes.

The following attribution of semantic properties is utilising data, collected by Geert Hofstede (2014). According to his studies, the population of Germany of today comprises Roman Catholics and Protestants who are evenly split. While the former occupy mainly the southern part, the latter is occupying the northern region. Besides the fact that the country has developed into the largest economy in Europe, its decision-making processes moreover are thoroughly prepared and carried out against the background of various groups of advisors and decision makers that must approve any transaction that might occur.

The Germans are sensitive to the integration of East and West Germany, and are eager to drive their unification process forward. Further, individualism, masculinity and uncertainty avoidance are in focus. Above all, German citizens value order, privacy, punctuality as well as long-term orientation. According to the international opinion, they are generally conceived of being thrifty, hard working as well as industrious. Finally, to admit economic and technological inadequacy appears to be incomprehensible.

Likewise, internationally conceived, the English citizens appear to have strong feelings towards individualism and masculinity. The English as well as the Germans are predominantly Christians, which correlates with their high regard of individualism. In this sense, there are no attribution differences between the Germans and the English. However, when it comes to power distance and uncertainty avoidance the English are standing considerably lower, compared to the power distance experienced in the German society. Moreover, also the long-term orientation of the English is graded considerably lower which indicates that they are open for a rapid achievement of changes.

Additionally, in contrast to the Germans, the English are very proud of their heritage and history but do not consider them Europeans despite the fact that they have been members of the European Union. The Prime Minister, through activating Article 50, triggered the

process of withdrawing the UK from the EU in 2017. The effort of establishing a European identity of the English citizens has its roots mainly in the works of German and Anglo-Saxon writers who have discussed the heroic codes as they appeared in their historic texts (Bauschatz, 1982). Further, the Germania of Tacitus could function as a common source of their cultural patterns of behaviour (Toswell, 2010, p. 27).

Leadership

Over the period from 2005 and ongoing, the elected leader of Germany has been Doctor Angela Merkel, who is the first female Chancellor of Germany and who is representing a Christian and conservative orientation. Her counterpart as leader of the United Kingdom of England, Scotland and Wales, is Margaret Thatcher who was Prime Minister from 1979-1990. She obtained a Second-Class Honours in the four-year Chemistry Bachelor of Science degree, specialising in X-ray crystallography under the supervision of Dorothy Hodgkin. Her dissertation was on the structure of the antibiotic gramicidin. She earned a degree in chemistry in 1947, and went on to work as a research chemist in Colchester. Later, she worked as a research chemist in Dartford. Interestingly, Thatcher became President of the Oxford University Conservative Association in 1946. Shortly after her marriage in 1951, she and her husband began attending Anglican services and would later convert to the Anglican Church.

In comparison, Angela Merkel had worked and studied at the Central Institute for Physical Chemistry of the Academy of Sciences in Berlin-Adlershof from 1978 until 1990. After her thesis on quantum chemistry in 1986, she worked as a researcher and published several papers. Moreover, both have been conceived of as the most powerful women after the Second World War. Thatcher was the second and Merkel was the third who served on the G8 (Forum of the eight most powerful economic states). Finally, throughout her tenure as Chancellor, Merkel has been widely described as the *de facto* leader of the European Union (EU).

For assessing the magnitude in leadership of Angela Merkel and Margaret Thatcher, it is essential to conceive the development of their impact as result of changes in the degree of complexity in the underlying mental structures. Thus, searching for identity, reflected by self-referential properties inside a text composition and finding the coupling configurations of emergent termini, related to neighbourhood and distance, prevents ambiguity in the results, because time-dependent coupling, speed, and reversible covalent interface smoothness are generating novel aptness conditions. This novelty is the result of the underlying connection dynamics, which is superior when compared with the functional architecture of attributed semantic properties.

Since language, conceived of as a natural system, becomes structured through rhythmic driving forces, which are transforming bio-kinetic energy into verbal flows, processing a selected discourse makes it possible to represent the result through the structures contained in its topological landscapes (B. Bierschenk, 2011; I. Bierschenk & B. Bierschenk, 2011). To the degree that the produced text has the capacity to reflect a certain dynamics, it will become possible to show that the core or root may have the deep commonalty that biological mechanisms show in their evolution of patterns of text building behaviour (B. Bierschenk, 1993/2013).

The produced and shaped mental attractions of European thought (Bierschenk, 1993) are the result of transformations on structural invariants, which are always tied to the second law of thermodynamics and consequently to the evolution of symmetry. Since it has been possible to identify a kinetic potential, it also has been conceivable to define a potential as a local concentration of conserved energy. In this sense, a kinetic potential relates to irreversible information flows in the following remark.

Merkel-quote

I said, yet again, for Germany, Europe is not only indispensable, it is part and parcel of our identity. We've always said German unity, European unity and integration, that's two parts of one and the same coin. But we want, obviously, to boost our competitiveness. (45 words)

Departing from the [AaO] formalism, existing of a 'reversible synthesizing rotary motor' (J. V. Hernández, E. R. Kay, & D. A. Leigh (2004) its mechanism can be used to make the essence of a language expression evident. As a result, it is expected that an AaO-synthesis, in its most fundamental sense, imply a Kantian inspired synthesis, which can be studied in strictly technical terms and scientifically.

The validity of the computational solution to the packing of strings of graphemes in the networks of the AaO system comes from the 'processing itself' (Mackenzie, 1998), but requires always the presence of a structured textual context. Concerning the conservation of root information, the roots have important theoretical implications since the attractor configurations in a network are the consequences of processing. As a logical consequence, a root becomes determined by the structures embedding it in corresponding energy landscapes. Further, the maintenance of non-equilibrium properties through symmetry-breaking operations allows the expression of the necessary mental capability as it is manifested in corresponding context-embedded structures.

Balancing the operating AaO-units, which are based on self-reference, implies processing the work of the information synthesising mechanism and the coupling of a language structure to its system dynamics. For viewing synthesis as a holistic outcome, the self-referential property of an [AaO] unit needs to generate structures, which are carrying important theory generating implications. In sum, all natural text production is necessarily the result of breaking or lowering the influence of order parameter all the time. Therefore, the Figures 1 and 2 below may be conceived as a demonstration of the flow dynamics, which is demonstrating wholeness as the explicit functional relation between the textual agents and the textual objectives of the processed Merkel-quote.

The Space Hypothesis

The validity of space differentiation has been tested against the space-tearing hypothesis (Greene, 1999, p. 278) and will be related to the evolution of the language spaces making up the quotes of Merkel and Thatcher. Therefore, the space hypothesis is focussing on asymmetries and phase transitions in the development of thermodynamic constraints. In manifesting the limiting effects on the patterning of strings of graphemes, two parallel working mechanisms for timing have been observed in previous studies (e.g., B. Bierschenk, 2001). Both are dependent on two kinds of time, which allow for the evolution of morphogenetic trajectories.

In the first case, timing of the kinetic processes determines the transformation of a potential into a textual flow. The question about where the flow is has been answered through the produced PES (Potential Energy Surfaces) of the Figures 1 and 2 below. Based on real time imaging of grapheme movements (B. Bierschenk, 2002) it has been made evident that an *AaO-molecule*, containing an A-particle and an O-particle, is rooted bio-physically and is depending on the rotating [AaO] mechanism. Further, since all living systems ('things') seem to have established rotational movement mechanisms for synthesising important life processes (Hernández, Kay, & Leigh, 2004). This process builds on a parallel causation of the A's and O's that has to be rooted in biology. Hence, individual transformation is intimately connected with the biology of time (Winfrey, 1980; Foster & Kreitzman, 2004).

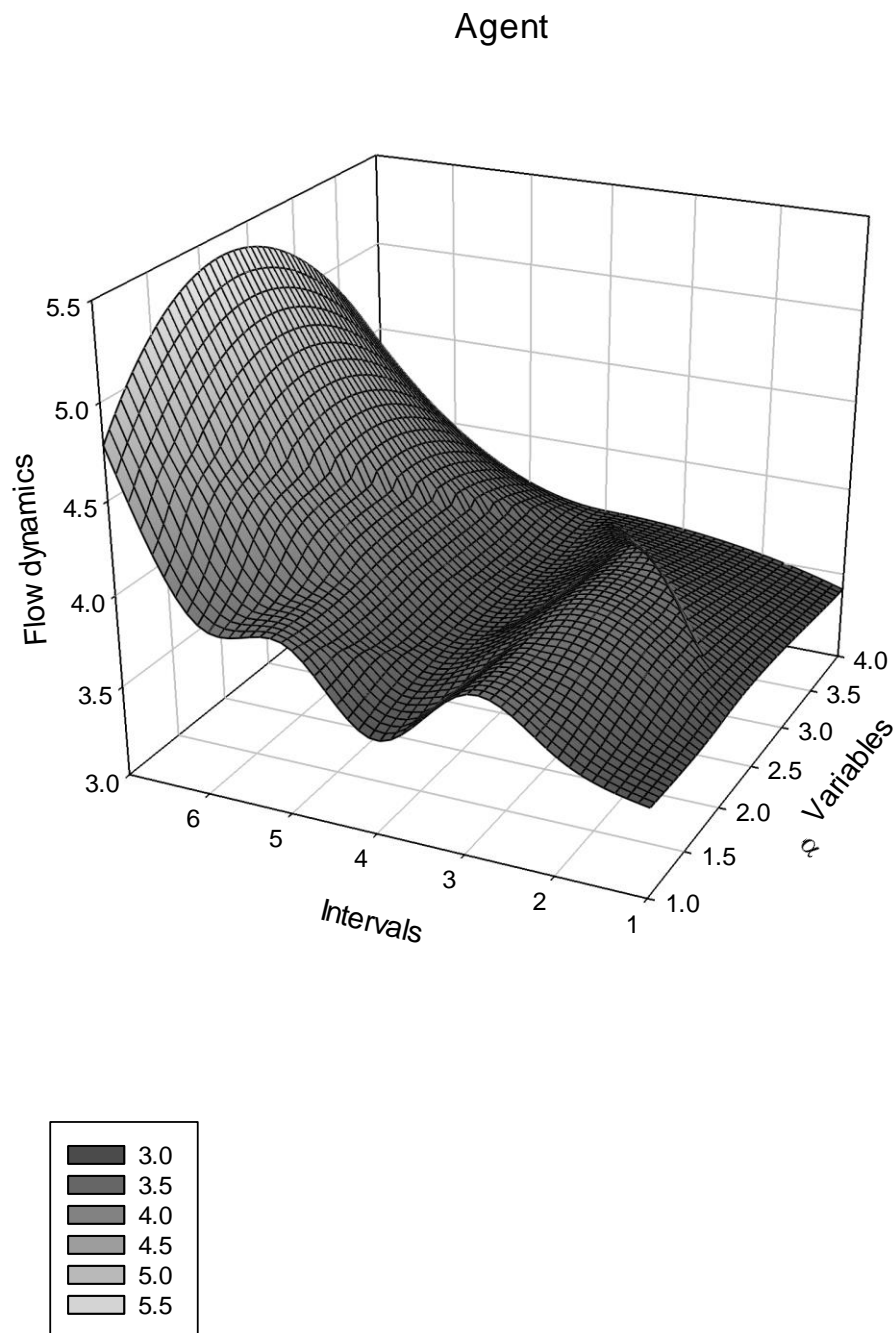


Figure 1 *Potential Energy Surface (PES) of Merkel's Textual Agents*

Looking at the textual movement pattern of the textual agents means grasping how the energy investment has produced a wave with a low starting value and a relatively high closing value. Over the entire range, the energy investment exerts certain phase-dependent pressures. At interval three, the established wave function is manifesting a slightly higher magnitude in its materialisation. At interval five, the resulting magnitude and direction imply a further boost before the wave is reaching its highest level at interval six and seven.

However, the resulting potential energy surface (PES) is far more than just an analysis of a wave function. Together with the wave function of Figure 2, PES gives expression to the true shape of the flow dynamics in the quote.

Objective

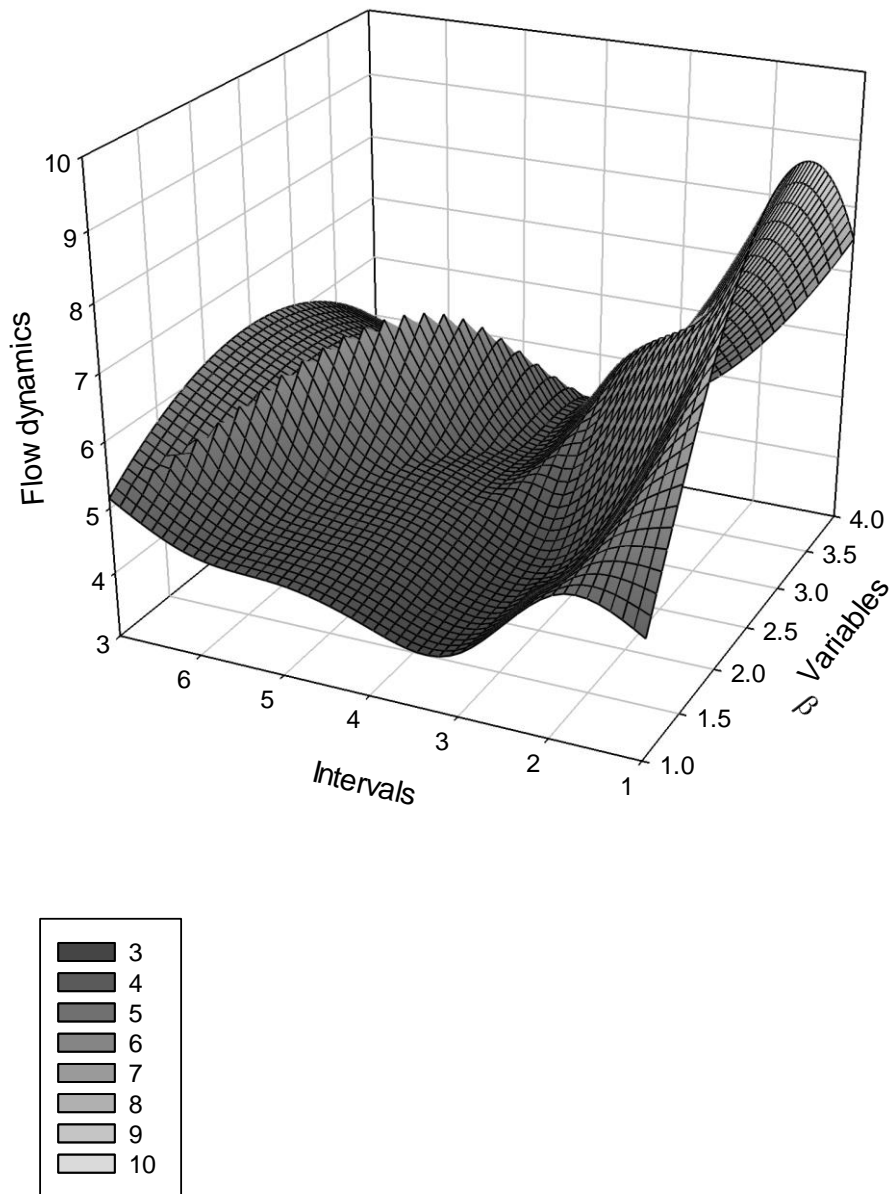


Figure 2 *Potential Energy Surface (PES) of Merkel's Textual Objectives*

Figure 2 allows a look at the bi-componential disparity, which means viewing the marked deviations of the first wave function in relation to the development of the second wave function. For example, interval one and two in Figure 2 are made up by magnitudes that surpass the intervals three, five and seven. Considered from a geometric point of view the wave function makes on one hand evident that its global minimum appears in interval three. On the other hand, supported is at least a second local minimum. The way in which a local minimum is connected in space depends on the dynamic overall behaviour of the wave. Its scope is approachable through a continuing study of the observed intermittent phase transitions. For example, when the flow dynamics is an explicit function of just two minima, the distances appear in the rolling of the wave. In Figure 1 and 2, the trajectory of the waves

runs close to the basin. The surfaces in the graphs show that the PES in its appearance is similar to a waving fabric. Hence, the notion of '*movement texture*' seems to be a fitting term for the form or shape of the flow functions. Producing the shape of a wave this way is expected to lead to Free Energy Surfaces (FES) and thus to landscapes which conserve the invested energy and makes it easy to interpret its holistic properties.

The Morphogenesis of Merkel's Orientation

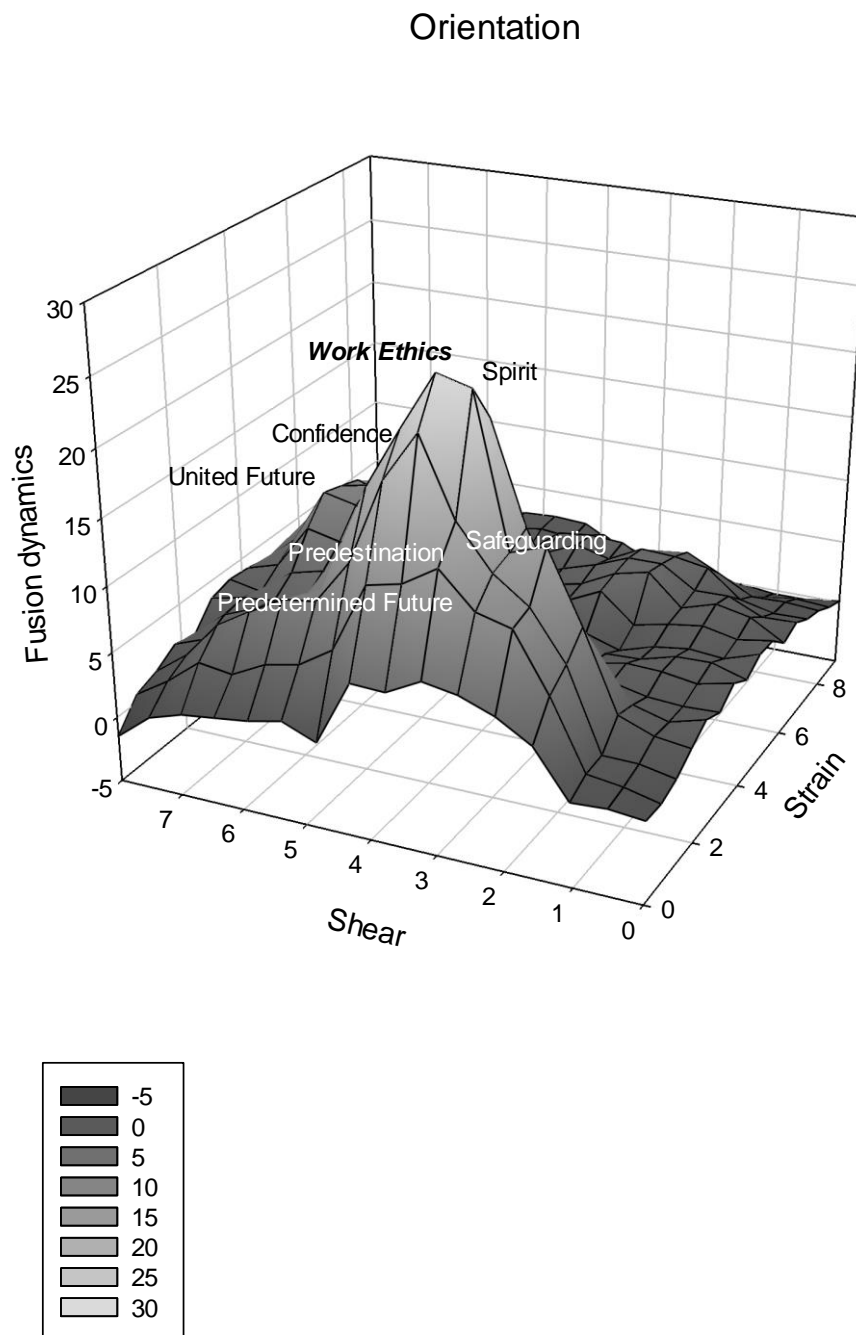


Figure 3 *Morphogenesis of Merkel's Orientation Space*

In observing the reproduced space of Figure 3, it is easily seen that the X-axis is representing the straining in a particular variable progression, while the Y-axis relates to the dimensional stretching, which is governing the progression. Thus, as organising device, the parameters of the underlying Mesh system play an important role in connecting the direction of time with its particular fusion dynamics.

At the root of the configuration is emerging a strong *Work Ethics* as vital for achieving the goals of import for the entire society, which is bound to produce high-quality products (Drake, 2017) in order to endure. In the present context, the attractor of *Work Ethics* is appearing in the position at (X=1, Y=3). As the final or global state attractor is associated with the concept, it constitutes the root of the Orientation dimension and thus a belief in the value of diligence and hard work. In particular, from a social and political point of view, an inherent ability to work hard strengthens one's civilization efforts and one's individual field of work. The established root is the dominant source for self-respect and in extension, for a development, which leads to the appreciation of the people one belongs to and is contributing to their general welfare.

Sustaining growth in welfare requires a focus on peoples' commitment. Thus, *Spirit* in the coordinate (X=2, Y=4) is a result of the transformation of the previously manifested concept of *Work Ethics* and thus, gives an answer to the fundamental question of expected economic growth. To bind oneself to competitiveness involves the *Spirit* of the work place, which means making a profit.

By contrast, on the developing path at the left-hand side appears the concept of *Confidence*. Its attractor is described by the coordinate (X=5, Y=6) which necessarily does not imply a belief in one's ability to succeed. Belief in one's skill to perform the necessary actions is grounded in the experience of successfulness, which is expected to add a general sense of *Confidence*. Therefore, the concept describes the state of being certain of the correctness in the choice of the course of action as the best or most effective way to reach one's goals.

In any case, in the prediction of upcoming events, judgement must be based on up-to-date data in order to be as accurate as possible. The corresponding concept *Predestination* appears in the coordinates (X=2, Y=5) and has a theological aura around itself. In the present context, the position taken is merely that the conditions, existing for an event could cause no other event. Forecasting success implies a process by which predictions are made, based on past and present policy observations.

Predetermined Future at (X=2, Y=6) must of course address the gathering of all information that is needed to eliminate 'flipping sides' in one's conduct to the present state of a system. Therefore, it appears to be impossible to respond to every turn a participating policy maker may choose to execute. However, if one accepts the condition that there is no one definite state, the initial conditions may well deviate from the generation of a definite outcome. To a policy maker, there is evidence that progress may be defined by considering unintentional actions and nevertheless achieve a seemingly deterministic explanation of import for arriving at a final standpoint, e.g., in the form of a united future.

The EU is conceived of as an entity that would reinforce democracy among the participating states. Apart from the idea of a supra-national foundation in order to prevent any war in Europe, *United Future* at (X=6, Y=6) is hanging on the process of making predictions on this geopolitical unity. This in turn led to the establishment of the single European currency. Several proposed names have been used with the purpose to refer to similar hypothetical scenarios. At present, there is no officially accepted path towards a *United Future* for all European member states. However, there is an exception in characterizing the EU as a 'European Super-state' (Curtis, 2016), namely by the policy makers of the United Kingdom (UK). They use the term as a criticism concerning further integration because they

appear to expect a forced loss of national sovereignty. A discussion of this point of view may be found in Cowley (2017).

Safeguarding at (X=7, Y=3), developing at the right-hand side, denotes measures to protect especially human rights. Thereby, citizens are expected to live free from abuse, harm and neglect. Most of them would agree that incidents of abuse against vulnerable or dependent persons are wholly unacceptable. Such incidents are even more of a concern where they are connected to policy formation and to people whose work is meant to help vulnerable groups or organizations whose task is to guard public place. When harmful incidents take place in trusted environments, poor *Safeguarding* standards would have to be blamed, since these incidents damages public trust and more generally confidence in the country's government. This is particularly so when supervision could have been done in more efficient ways in order to prevent mischief or to deal with an irresponsible administration. It is for these reasons that *Safeguarding* is an important policy issue for any government.

A Short Comment

Thus far, the extent to which a variable configuration can give expression to the quality in a quote has been made evident in terms of the Gaussian curvature. An interpolation of the computed radians has been carried out with its negative exponential function. Moreover, a local smoothing technique has been applied, which is using polynomial regression and weights, computed from the Gaussian density function (SigmaPlot 13, 2014).

As previously mentioned, underlying a particular configuration are transformed and interpolated mesh systems that are regularising the demonstrated fusion dynamics. Since the acceleration in the progression of folding is expressing the functional relation between Shear and Strain, order parameters are internally governing the expression of the stress functions of the dimensions. Their operations on a particular FES are thereby forcing the energy attraction, i.e., the concentration of information, to form their unique shapes. Thus, the emerging shapes are "shapes of time" (McNamara, 1997), which make it possible to achieve a *value judgement* (Williams, 1966, p. 101), namely a judgement of quality in the processed Merkel-quote.

Since the [AaO] formula offers the proper instrument, the study of the morphogenesis of intention and structural stability of motifs has been attempted. Thereby, it has been possible to demonstrate that derived [AaO] units have the capacity to bring intention to the fore. It is shown that the proof of an existing Intention structure is independent of parameter fitting but becomes established through the application of Greene's (1999) mirroring strategy. Coupling the movement of textual agent variables at the micro level with the attractor trends at the macro level implies a rigorous examination of their resonance properties. Thereby, it has been possible to indicate that the communicated essence of Intention can be approached from the inside out and described as a trend towards the global or final state attractor of the Intention dimension.

The Morphogenesis of Merkel's Dimension of Intention

Speaking of *Spirit*, established at (X=2, Y=3), as the root of the Intention dimension, *Spirit* as significant variable makes only sense in connection with the emergence of a complex society. Moulding knowledge and skills is a formal expression of reflection on the status of the individual as well as the entire population to which the individual belongs. The evolution of a *Spirit* requires important transformations in knowledge acquisition and transfer. Most importantly, Hegel did use the phrase 'der Geist seiner Zeit', meaning the spirit of his time and, as cited by Magee (2011, p. 262), Hegel intended to convey the idea that no man can surpass his own time, for the spirit of his time is also his own spirit. Achieving control over this *Interconnectedness* constitutes the base line for Figure 4.

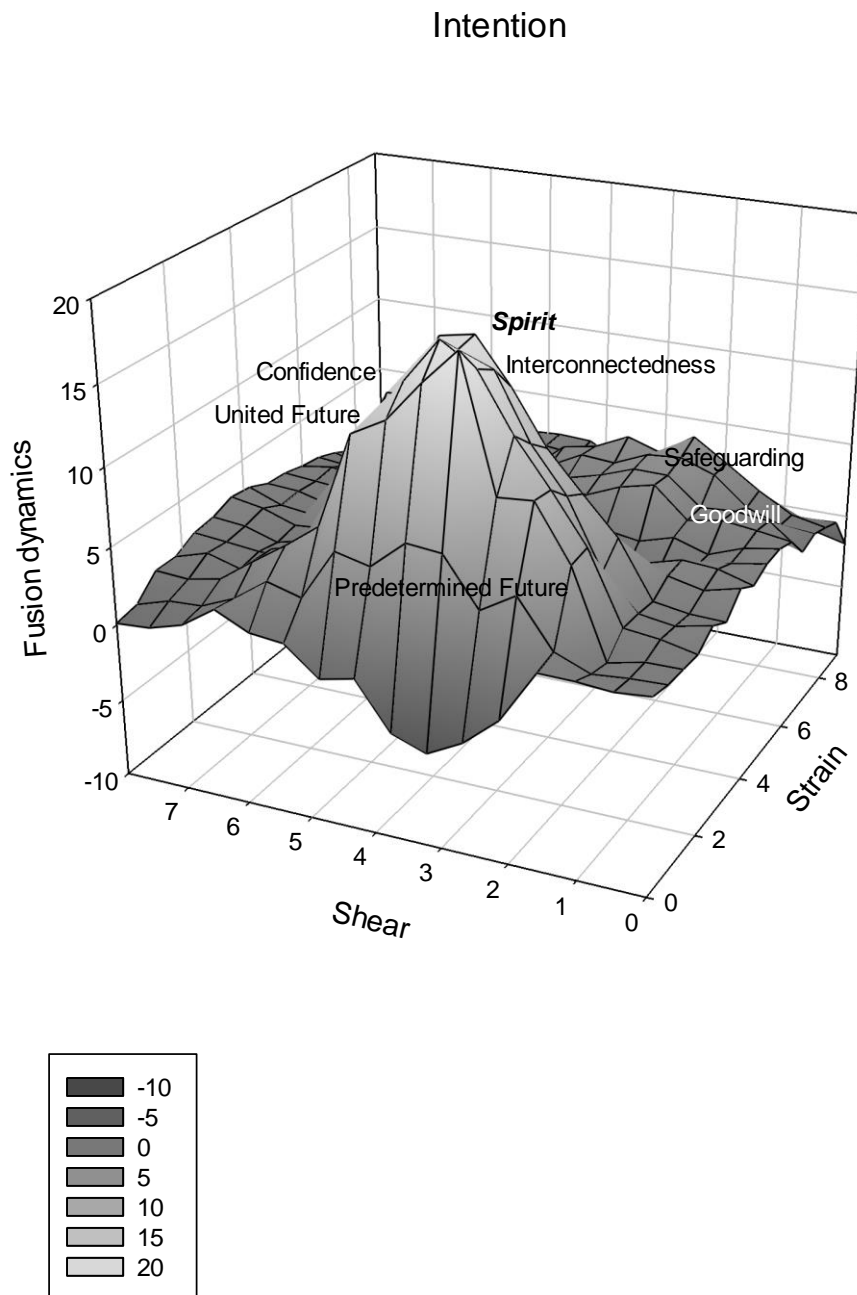


Figure 4 *Morphogenesis of Merkel's Intention Space*

The concept *Interconnectedness* at (X=2, Y=4) refers, politically conceived, to a need to develop cooperative policies. It means finding mutual interests and gains with the purpose to prospect growth. Generally, the concept refers to both economic and political integration through free movement and the elimination of barriers that prevent the individual from financial and economic growth based on national as well as international trade agreements. Thus, *Interconnectedness* requires the free-market paradigm, allowing for smooth flows of capital, people and services. For a political leader, globalization means the acceptance of international interdependence, which carries pros and cons. Hence managing this challenge is a most critical task for any policy maker and requires a lot of *Confidence*.

The concept *Confidence* re-appears in the Intention dimension left-hand side and in the coordinate (X=4, Y=5). It is addressing the state of being certain both that one's hypothesis is correct and the prediction made may lead to success and consequently prosperity. Hence, *Confidence* is also a state of flourishing, thriving and good fortune. Moreover, it involves the state of continuous learning which will increase the probability of future success.

As noted in connection with the Orientation dimension, a *United Future* at (X=5, Y=5) is a dangling process since it requires predictions concerning the realization of a geopolitical unity. The EU is conceived of as an entity that would match this ambition and would reinforce democracy among its participating Member states. Apart from the idea of a supra-national foundation in order to prevent any war in Europe. This in turn led to the establishment of the single European currency. As a supranational union, the EU is a type of multinational merger where political power is delegated to Brussel.

Predetermined Future at (X=2, Y=5) of course must address the gathering of all information that is needed to eliminate 'flipping sides' in one's conduct to the present state of a system. Therefore, it appears to be impossible to respond to every turn a participating policy maker may choose to execute. However, if one accepts the condition that there is no one definite state, the initial conditions may well deviate from the generation of a definite outcome. To a policy maker, there is evidence that progress may be defined by considering unintentional actions and nevertheless achieve a seemingly deterministic explanation of import for arriving at a final standpoint, e.g., in the form of a *United Future*.

Also the attractor *Safeguarding* at (X=7, Y=3) is re-appearing and thereby constituting the highest point of the trajectory, developing at the right-hand side. The attractor denotes special measures to protect human rights. Thereby, citizens are expected to live free from abuse, harm and neglect. Most of people would agree that incidents of abuse against vulnerable or dependent persons are wholly unacceptable.

Nowadays, such incidents are even more of a concern, especially when they are connected to policy formation and to people whose work is meant to help vulnerable groups or organizations whose task is to guard public places. When harmful incidents take place in trusted environments, poor safeguarding standards would have to be blamed, since these incidents damage public trust and more generally reliance on the country's government. This is particularly so when supervision could have been done in more efficient ways in order to prevent mischief or to deal with an irresponsible administration. It is for these reasons that *Safeguarding* is an important policy issue for any government.

Goodwill at (X=7, Y=2) is another attractor that is re-appearing and thereby pointing towards an immaterial gain of people which gives them competitive advantages. The reputation of people together with an obvious ethical conduct serves the society as well as the single individual in the defence of civil security. From a classical point of view, any judgement of *Goodwill* is accessible only to the degree that critical performance constraints are enhancing the achievement of excellence.

Potential Energy Surfaces (PES) of the Thatcher-quote

Unless the underlying causes of the functional movement patterns in the quote are addressed, it is unlikely that the inside of the writing pattern will become approachable. An analysis of the resulting flow dynamics implies looking at the entire text as a two-sided entity. Presented in the form of two potential energy surfaces, the flow dynamics is presented in the Figures 5 and 6. As noted previously, the rhythm in Thatcher's quote represents far more than a description of the relation between its wave functions. It is an analysis of their true shape.

Thatcher-quote

If you lead a country like Britain, a strong country, a country which has taken a lead in world affairs in good times and in bad, a country that is always reliable, then you have to have a touch of iron about you. (43 words)

Since the PES of Figure 5 and Figure 6 evidently are of greater import than the free energy surfaces (FES), to be presented in the Figures 7 and 8, the underlying fusion dynamics is a geometric account of structure. When the production of the given quote is measured based on geometric properties it becomes easily observable that the flow dynamics in the Agent component has produced a deep local minimum.

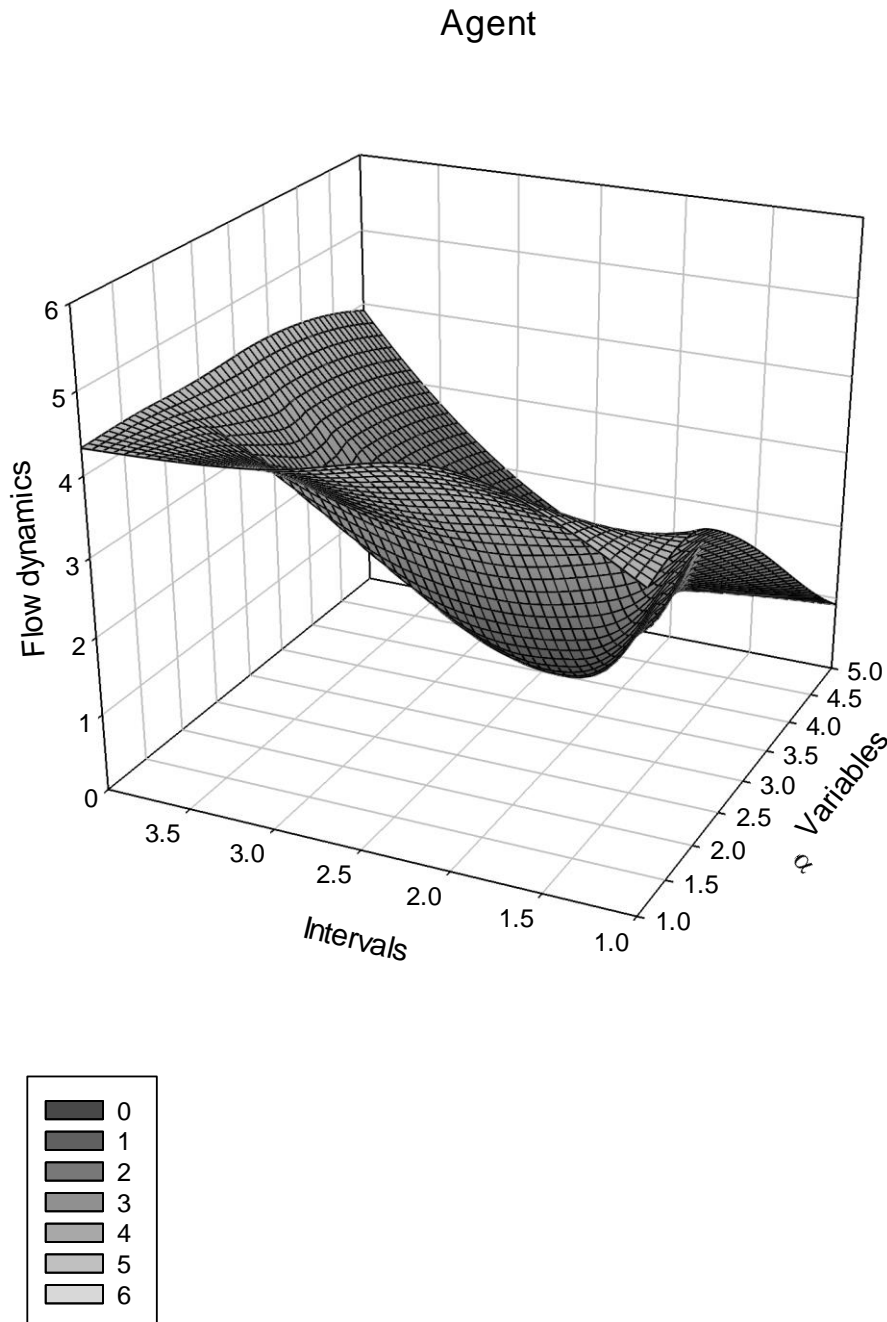


Figure 5 *Potential Energy Surface (PES) of Thatcher's Textual Agents*

It is determining the region, which is made up by three variables in the second interval. On one hand, the wave has been curved towards the global minimum of its PES. On the other hand, the produced wave has also generated a twisted surface due to the gradient, which is defined by the first interval together with the intervals three and four.

When a text space makes up the context, intention is no longer the objective of the physical conditions of making experience. Therefore, the wave function of Figure 6 is evolving in a sequencing space, which has the hyperbolic property of ‘intrinsic’ as well as ‘extrinsic’ curvature (Wisdom, 2003). The flow dynamics, presented in Figure 6 is crucial for the specification of the operating transformations to be established as link between the implications of the string-concept and string movements.

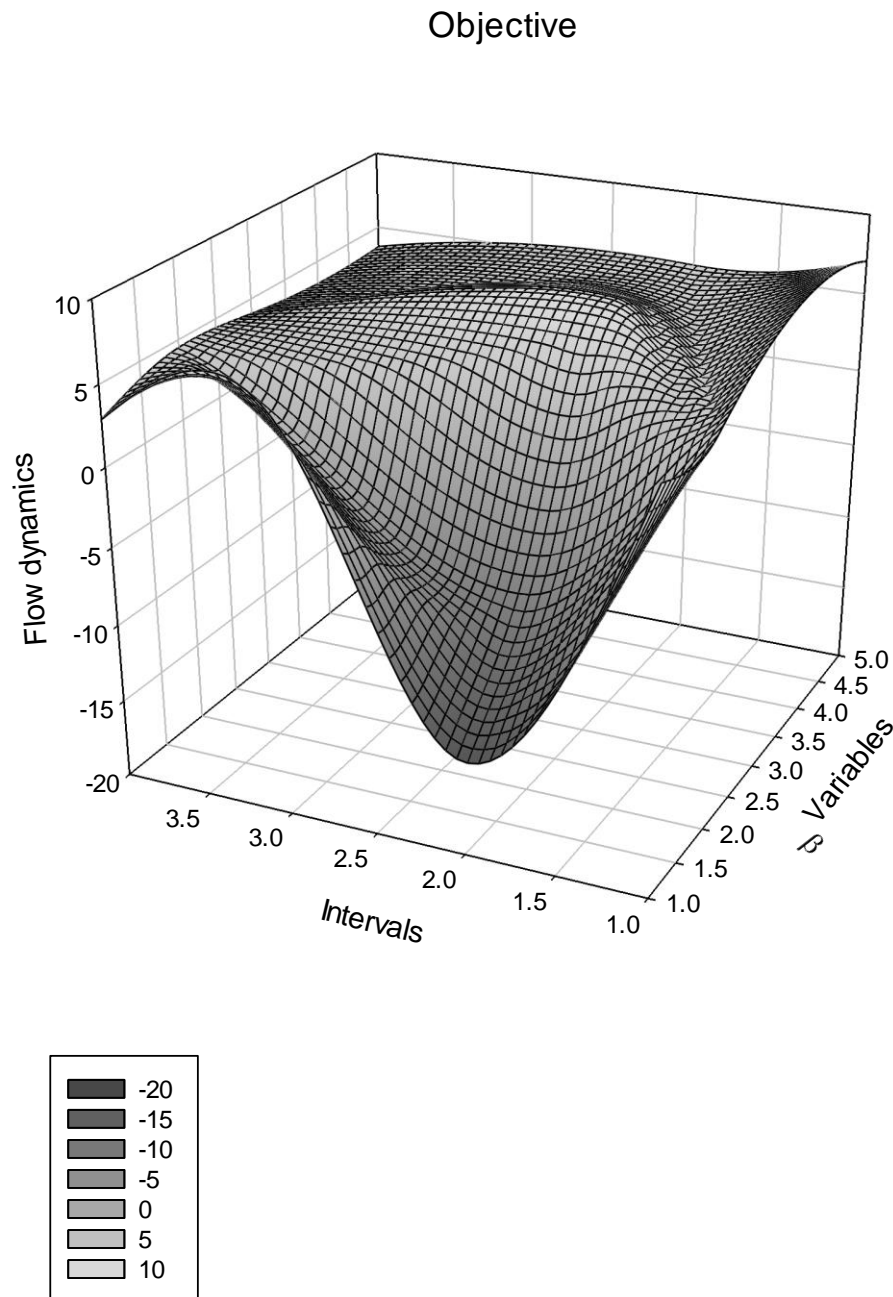


Figure 6 *Potential Energy Surface (PES) of Thatcher’s Textual Objectives*

Instead, it is the hyperbolic determination of its flow dynamics. Thereby, flows are produced, which pass beyond the limit of their material sources. Hence, a wave function is organising itself. Demonstrating the function requires that ordinary geometry be replaced with what has become known as non-commutative geometry (Connes, 1994 p. 7; Greene, 1999, pp. 379-380; Hestenes, 1986/1993, Hestenes, 1994, p. 66). Especially the impact of the transition in a phase-dependent space is in focus. Moreover, there is no requirement for any subjective parameter choice.

In confining the flow dynamics to the textual objectives, the rhythmic movements have governed the evolving wave towards the global minimum that has appeared in the second interval due to the variables three and four. In contrast, variable five in interval three has produced a fast climbing trajectory that marks the slope of the wave. A second minimum, however of lesser depth, has appeared with variable nine in interval four. Thereby, it is made obvious that text production can be measured with precision, which implies displacement through rhythmic movement patterns.

Morphogenesis of Thatcher's Orientation

A complex systems and nonlinear dynamics constitute the new condition, which is founded on the following assumption: Self-sensitivity in the (O) component is related to the lawful regularities in the movement of the textual objectives. The establishment of their local symmetries is specifying semantic-free grapheme patterns. Further, through their flow dynamics their phase-dependent displacement is producing the presented potential energy surfaces (PES).

For Thatcher, resolving the governmental control task means to have the strength of confronting the hard consequence day after day because the result is essential. For her, governing implies being able to frame a critical responsibility as one that supports the strategic outcomes, the legislation hopes to achieve. Hence, for that purpose the following Free Energy Surfaces (FES) will be produced and described in Figure 7 and Figure 8.

Hence, ***Reshaping Power*** at (X=2, Y=3) is appearing as the root of the dimension of Orientation and thus, as the final or global state attractor on this Free Energy Surface (FES). This attractor means that it has become possible to capture her 'point of destination'. Hence, *Reshaping Power* is the finalizing concept that has evolved out of the transformed information. Her efforts to reshape the empire of the UK were facilitated by the fact that the EU was an unbroken force at the time of Thatcher's ruling as Prime Minister.

However, the coalition government of the UK inherited a trashed economy, which inevitably provoked gambling. As Thatcher was electorally strong, she was able to pull off this card of broken material. Furthermore, her luck in pulling off victory in the Falkland's War, which was her super-gamble, set her in good stead for her later battles. Not just the Argentineans, but Libyan terrorists at the embassy siege when most people advised her against the solution of the Special Air Service (SAS), the IRA hunger strikers when 10 prisoners starved themselves to death. She did not yield, and most famously the miners who ran a badly planned but belligerent strike against her.

Her military choices were probably lucky because her political ones were the sign of an acute political sense. However, her sensitivity did only work at home when she was in full command. At the end of the first path, the UK appears to have been transformed however only to the degree that collaborative negotiations could be circumvented in an ambition of *Empire Reclaiming* as it appears below sea level at the position (X=1, Y=3), however, now reduced from 50 to 14 dominions and states (Aljazeera on Thatcher, 2017).

Orientation

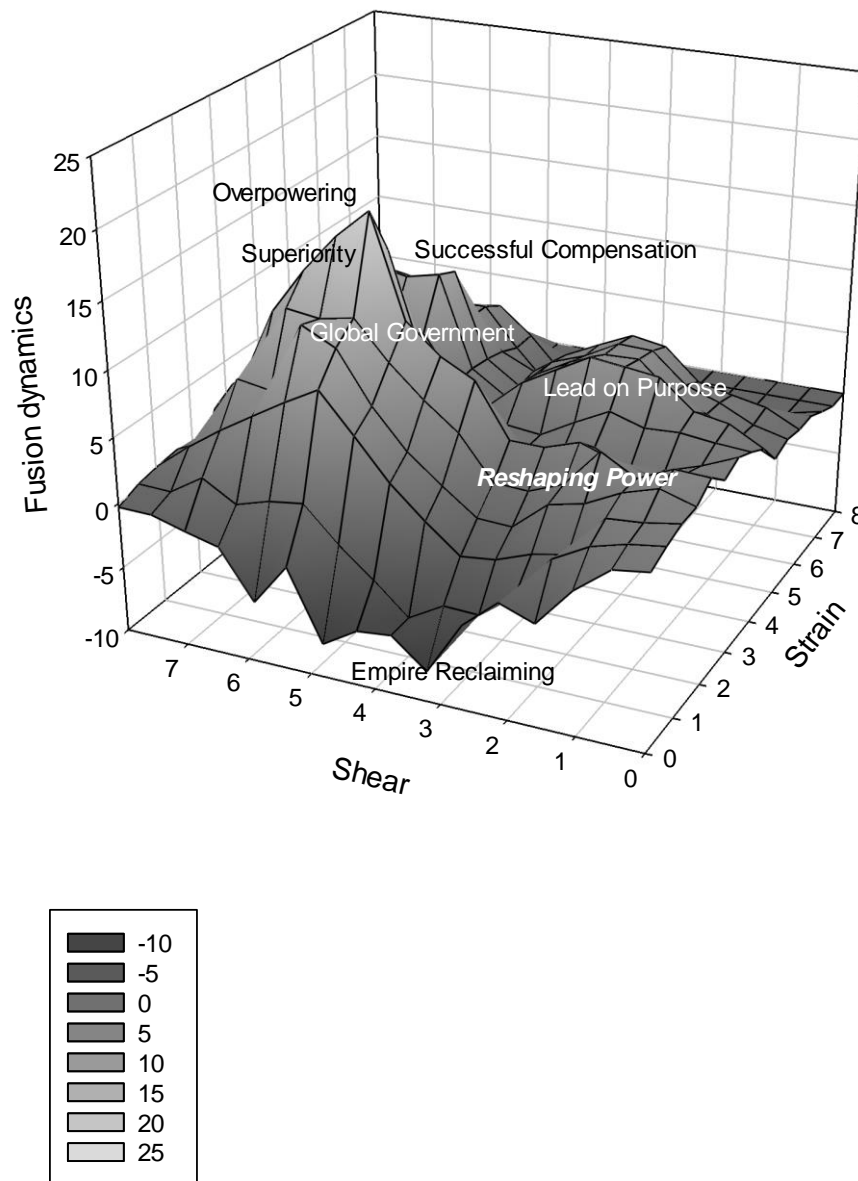


Figure 7 *Morphogenesis of Thatcher's Orientation Space*

Empire Reclaiming has its root in defending the remaining territories of Britain, which was tested when Argentina tried to invade the Falkland Islands, acting on a long-standing claim that dated back to the Spanish empire. The successful defence was taken as a sign of reversing the downward trend in the status of the UK as a world power. Legacy of the British sovereignty over a number of territories outside the British Isles and were retained through self-governing bodies that remained dependent on the UK for their foreign relations and defence.

In the first place, the pretention to lead the *Global Government*, appearing in the position at (X=2, Y=5), concerns EU movements towards political cooperation among transnational players, aimed at acting in response to proposals for negotiation, affecting

various regions or national territories. However, in Thatcher's sense, established EU institutions worked slow and had only limited power in enforcing compliance. In response to the reluctance of the UK, the acceleration of an EU-wide interdependency had to focus on the process of designating laws, rules and regulations that were needed in order to intend order and to provide commonalities for all European citizens.

In the perspective of the English *Superiority*, the position at the coordinate (X=4, Y=6) is marking a profound upswing (Toswell, 2010). As Philip Stephens (Financial Times, April 11, 2013) observed, 'British Euroscepticism' is founded on Thatcher's rebate. In Toswell's sense, the upswing has produced the English *Superiority*. Thatcher's confidence about the global reach of the British people has constantly appeared as seductive. In her pro-European ambitions, she has always recognised the EU as a vehicle for essentially British interests. As Stephens writes: 'Thatcher's memories were Churchillian, rooted in the glorious narrative of a great nation standing alone and unswerving against the forces of tyranny across the channel.'

From the English point of view, the global political system at the European level is rather insignificant which means that the English must promote its effectiveness in order to develop a common and civilized organizational form. Thus, with the English spirit in mind, it can only mean *Overpowering* at (X=2, Y=6), which implies that infrequently integrated nationally existing systems must be dominated by the UK. Its future modes should be designed according to the British spirit of organizing and should be made to guarantee regularized bureaucratic coherence, which is to be codified and made rational.

From the British point of view, demand description must really address the nature of the observed deficiency. Compensating deficits vis-à-vis the EU is the expected role, to be performed by the single member state. Thus, in any organization *Successful Compensation* at (X=6, Y=6) depends on the provision of clear demands to the member states of EU. This goes far beyond what is typically communicated to the single governments. If it fails to comply with the law of the EU, it may be fined or have funds withdrawn. To the dismay of the UK, the EU style of integration has become a highly developed system for mutual interference in each other's domestic affairs. Members would still be bound by the obligations, but the EU-Council acting by majority, may alter or lift sanctions for potential breach and make recommendations to the member to rectify a breach.

Most important, the EU structures ongoing conversations between its member-state executives and foster higher education as well as informing their civil societies. Thus, EU and its organisations should make use of purpose-driven leaders. *Lead on Purpose* is the proposition at (X=5, Y=3) and envisions policy makers and Politician's across governments that share their visions on the EU and a more just and sustainable European enterprise. Hence, *Lead on Purpose* refers to discussion and demonstrations of how one should address complex political, social, environmental and economic challenges. Against this background, Thatcher tried to use the EU as her instrument to come to world power.

Morphogenesis of Thatcher's Intention

Since the [AaO] formula offers the proper instrument for the bio-kinetic approach to the dimension of Intention, the fusion dynamics can be depicted, and connected with the derived [AaO] units that carry the cues to intention. Moreover, by mirroring textual objectives in the agents, rigorous examinations on their roots can be achieved and show that their proof does not depend on parameter fitting but can be established through the processing of the applied mirroring strategy itself. Again, the [AaO] formula has been applied with the purpose to overcome the impediment of semantic-syntactic interpretations and to allow for a biophysical study of the properties of intention as reflected in Figure 8.

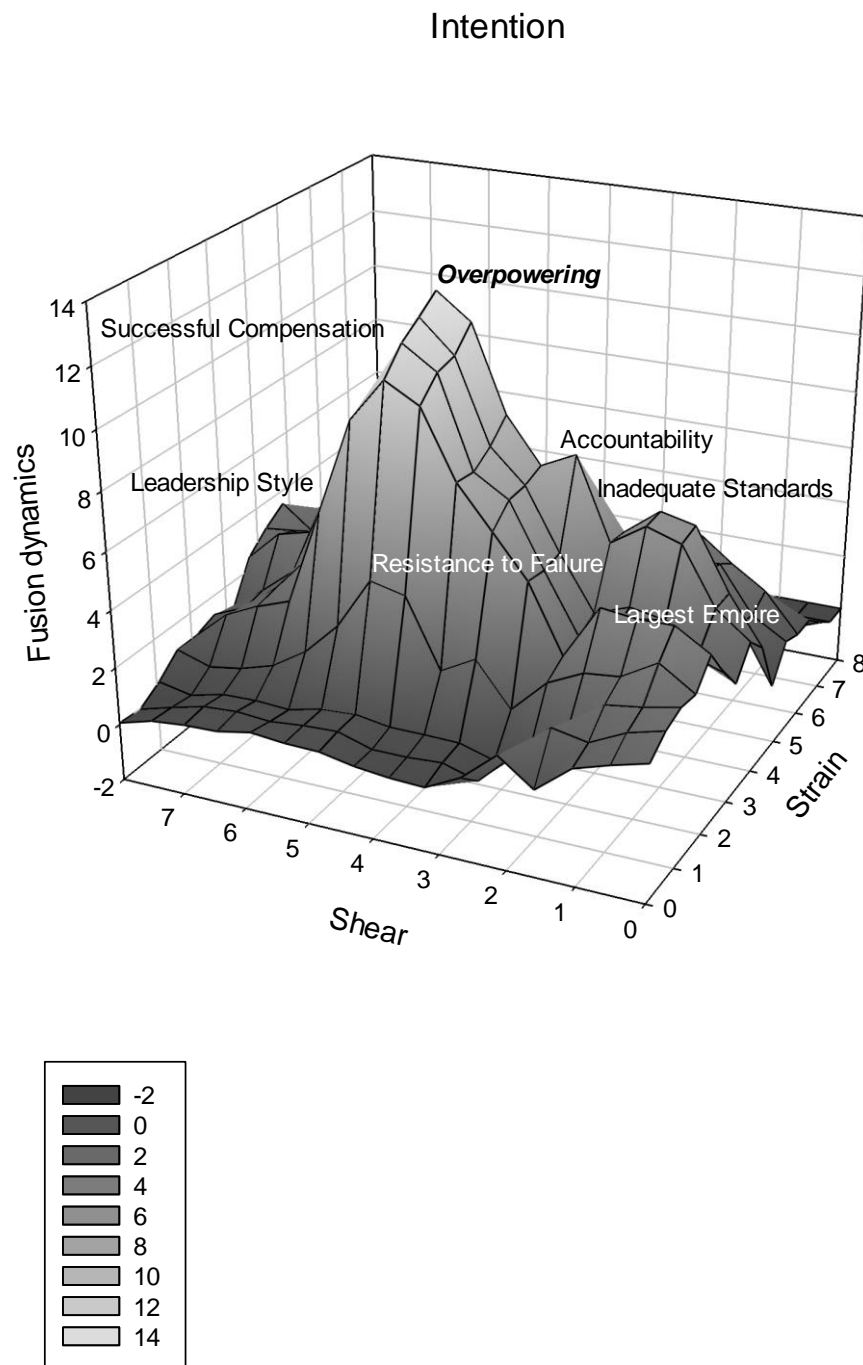


Figure 8 *Morphogenesis of Thatcher's Intention Space*

The landscape in an established workspace is always characterized by regions, which, moreover, may show strong bottlenecks and thus suggest firmness in the achieved state attractions. As a result, all complexities, observed at the end of the transformations of attractions, can be circumscribed and communicated with the name associated with particular state attractions, especially with the final or global state attractor.

From the intentional point of view *Overpowering* at (X=3, Y=4) ensures that the Prime Minister maintains the quality of the governmental service to the highest degree. Its purpose is to focus on single administrative units and judge their activities with respect to integrity and carefulness. Challenges in the political world are dealing with proactive changes in awareness of a world outside the UK that may appear as more complex and diverse than expected by the administration. Managing the government's critical path to success implies making decisions that are actively interfering with the conditions defining the relation to the EU.

In the coordinate (X=3, Y=5) appears *Successful Compensation* as an expression of the extent to which the political actions are carried out in order to ensure the Government's capacity to avoid, in Thatcher's phrasing, wasting materials, energy and efforts in good as well as in bad times. The expected outcome is viewed with respect to the resources the political system has used in relation to expectations. Moreover, *Successful Compensation* is focussing on the government's specific capacity to draw on different sources of input from various economic domains and industry. By contrasting *Successful Compensation* with effectiveness, it becomes clear, that the former should not be confused with the latter. Thus, Thatcher's political world implies that any responsible authority must implement the right measures. This expectation emphasizes indirectly that the selection of multiple objectives in a policy process is just as important as the quality of the process itself.

Thatcher's *Leadership Style* is addressed at the position (X=5, Y=7) and the government's administrating system should not be distinguished from the person, holding the highest political position. Since the powers in Europe work on a collaborative basis, her single-minded approach failed the goals of the EU despite her willingness to gamble and fight. By any standards, Thatcher was not collaborative but clear-sighted and full of convictions. However, she was unwilling to bend.

Over centuries, Britain has developed the *Largest Empire* whose attractor has appeared in the position at (X=3, Y=1). It was constituted and based on British rule as well as on emigration. The independent nations that arose and are using the English language today comprise a very large number of people. Particularly during the second part of the 20th century, the cultural and economic influence of the USA has promoted the widespread adaptation of the parliamentary system of the UK as well as the English common law for their legal systems.

Its holistic property requires a particularly firm stepping function to be applied in the materialisation of certain administrative cycles. *Resistance to Failure* at the position (X=3, Y=6) means looking at Thatcher as the 'Iron Lady' and a single policy maker with a stern energy investment. A touch of 'iron' to Thatcher's choice of *Leadership Style* has had effects on any response behaviour beyond immediate changes. Speed and validity in order to enforce behavioural changes may have affected her true character and improvement in policy-making.

Political agencies or commissions that are interested in arranging transaction between the UK and EU have to come to grasp the attractor *Inadequate Standards* which has appeared in the Position (X=5, Y=2) at the right-hand side. The roles and tasks undertaken by the British Government are, nevertheless, dependent on their understanding of changes evolving during different phases in the development of European standards. Skilled promotion of corresponding activities and bridge building by the English administration could have made huge differences in the effectiveness of the EU. However, forming and strengthening the EU alliance over time has not ensured the special relationship between the UK and EU which would have included significant values, namely those that would have been instrumental in the outlining of a globalized society.

As an alternative to welfare-economics *Accountability* at the position (X=3, Y=2) refers to ideas which were excluded from classical political and economic approaches. The concepts refer to an attractor that directs the focus on what the single individual may be able to ensure. Emphasized by the attractor is functionality in the sense that people have the freedom to value instead of being dependent on what the classical utility theory prescribes. Noteworthy of the functional property is the proposition that the individual must have the capability to perform choices and the freedom to acknowledge and claim the existence of individual rights.

About concerns over the state of the British economy, with reference to *Accountability*, the government has promised immediate actions. However, these actions would depend on other EU partner's response to invitations by the UK. For example, the Brexit ministers welcome immediate actions to meet the government's existing expectations and commitments. Nonetheless, there is a very real risk that its political targets will be missed. The latest news reports show that there has been no significant increase in productive talks over the last year (i.e. since the Brexit announcement in 2017). A first step would have been to fulfil the obligations concerning payment of the Brexit-bill. This investment strategy would be needed in order to begin the actions to meet the EU-target. In the post-Brexit UK, it is clear that the government is forced to attract inward investment.

Discussion

In what way the AaO-formula constitutes a helpful experimental foundation for the screening of the problems with the European identity and modes of handling the EU crisis as well as the manifestation of the fundamentals of mentality concerns the analysis of citizenship in Europe and in particular in Germany and England. Their dynamics is captured through the balanced energy investment on one hand and the specific characteristics of emergent conceptual relations.

Hence, the significance of the information, related to the German concept *Work Ethics*, may be picked up directly. However, the identity depends on the perceived nature of the involved events. Once the invariants have been established, the structural relations of the concept can be comprehended. Since wholeness signifies text validity, rotational processing requires no other reference systems as the landscapes, representing Merkel's quote. This validates the use of balanced energy investments as 'straining functions' and to determine the specific proportion of a rotational outcome as theoretical foundation for the named relations.

Despite relatively small balancing differences, there exists an *identity* in the naming of the agent function. Thus, the evolving course has produced a state attractor that is working towards *Spirit* as the outcome of its structural symmetry. It follows that the produced and shaped mentality is denoting the named structural relations of orientation and intention. Thus, the accessed information must interact and all changes of structure over time must be regarded as measurable conceptual relations. This demonstrates that the emerging structural relations have required novel ways of changing during the integration of the basic patterns into properly convoluted configurations.

In considering the special emphasis placed on conceptual information displayed by the *Reshaping Power*, the hypothesis may be put forward that the emerging concepts in the English landscapes are fundamental to the formed mentality and are guiding the understanding of the English world-view. Logically, search and discovery of the English novelties is mandatory, and a necessary device for the formulation of the reshaping-hypothesis, namely that power has to be formulated, which can be tested against empirical data. The reshaping is achieved through a process by which variety in the shaping becomes

specified. Thus, mentality is described from the inside out and through the established state attractors.

In comparison with Merkel's intention, Thatcher's intention has emerged in *Overpowering* with the purpose to demonstrate strength. Since she came to power, she has treated her party with high-handed haughtiness. Instead of trying to restore Britain to greatness, she had to give attention to its weakness and had to focus on the limitation of opportunities, caused by the disintegrating move of the UK. By favouring loyalty instead of talent she operated by arrogance instead of showing humility. Thus, the landscape of Intention communicates no hope to overcome the effect of abandoning the EU and the harm this move is expected to bring to Britain's international standing. Instead of acknowledging this result, there was no admission of a divided country and she seems to have acted as if this is an unheard result of spending millions on generating the *Power* needed for *Empire Reshaping*.

The present Government's management efforts and negotiation attempts, rooted in the Brexit proposition, is a chimera because detour strategies cannot eliminate the weak standing the UK has in dealing with the EU and the evolving effects of the reactions of third parties which are undermining Britain's trustworthiness concerning political and economic affairs. Weak in handling foreign affairs, the Government's diminishing role in negotiating Britain's exit from the EU will give little hope for preventing the decline of England's *Power* in relation to the remaining 27 countries. Despite an embargo on settling business agreements before England has left the EU, the Government has started various policy campaigns with high swelling but for now finished it as loser and utterly diminished in the eyes of the European leaders.

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Appendix 1

Table A1.1

Intervals and Radians of Alpha and Beta Variables

Case	Interval	Alpha	Beta
1	1	3.485400	4.804200
2	1	3.485400	8.360000
1	2	3.642400	5.118200
1	3	3.862200	3.956400
2	3	3.862200	4.050600
3	3	3.862200	5.959800
1	4	3.516800	4.050600
2	4	3.624687	4.553000
3	4	3.624687	4.521600
4	4	3.624687	4.207600
1	5	3.925000	4.396000
2	5	3.925000	4.837510
3	5	3.925000	6.385500
1	6	3.925000	4.521600
1	7	4.783839	5.149610

Table A1.2

Transformation of Beta Variables

X	Y	Node	Value	Transformation
0	1	D	0	
1	0	1	4.8042	Said, jet again
1	1	T₁	4.8042	Insistence
2	0	D	0	
3	0	3	5.1182	Is not only indispensable
3	1	T₂	5.1182	Essential
<i>1</i>	<i>1</i>	<i>T₁</i>	<i>4.8042</i>	<i>Insistence</i>
<i>3</i>	<i>1</i>	<i>T₂</i>	<i>5.1182</i>	<i>Essential</i>
5	2	T₃	9.9224	Self-understanding
4	0	4	3.9564	Is part
5	0	5	4.0506	And parcel
5	1	T₄	8.0070	Integral Component
6	0	D	0	
7	0	6	5.9598	Of our identity
7	1	T₅	5.9598	Virtue of being
<i>5</i>	<i>1</i>	<i>T₄</i>	<i>8.0070</i>	<i>Integral Component</i>
<i>7</i>	<i>1</i>	<i>T₅</i>	<i>5.9598</i>	<i>Virtue of being</i>
7	2	T₆	13.9668	Goodwill
<i>5</i>	<i>2</i>	<i>T₃</i>	<i>9.9224</i>	<i>Self-understanding</i>
<i>7</i>	<i>2</i>	<i>T₆</i>	<i>13.9698</i>	<i>Goodwill</i>
7	3	T₇	23.8892	Safeguarding
9	4	7	4.0506	always
9	5	8	4.5530	Said German unity
8	5	T₈	8.6036	Reconciliation
7	8	9	4.5332	European unity
6	8	10	4.0688	And integration
6	7	T₉	8.7292	Open Democracy
<i>8</i>	<i>5</i>	<i>T₈</i>	<i>8.6036</i>	<i>Reconciliation</i>
<i>6</i>	<i>7</i>	<i>T₉</i>	<i>8.7292</i>	<i>Open Democracy</i>

6	6	T₁₀	17.3328	United Future
7	3	T ₇	23.8892	<i>Safeguarding</i>
6	6	T ₁₀	17.3328	<i>United Future</i>
5	6	T₁₁	41.2820	Confidence
5	8	11	4.3960	i's two parts
4	8	12	4.8375	Of one
4	7	T₁₂	9.2335	Flip Sides
3	8	D	0	
2	8	13	6.3855	And the same coin
2	7	T₁₃	6.3855	Destiny
4	7	T ₁₂	9.2335	<i>Flip Sides</i>
2	7	T ₁₃	6.3855	<i>Destiny</i>
2	6	T₁₄	15.6190	Predetermined Future
0	7	14	4.5216	Want, obviously
0	6	15	5.1496	Boost our competitiveness
1	6	T₁₅	9.6712	Interconnectedness
2	6	T ₁₄	15.6190	<i>Predetermined Future</i>
1	6	T ₁₅	9.6712	<i>Interconnectedness</i>
2	5	T₁₆	24.9846	Predestination
5	6	T ₁₁	41.2820	<i>Confidence</i>
2	4	T ₁₆	24.9846	<i>Predestination</i>
2	4	T₁₇	66.2066	Spirit
0	5	D	0	
0	4	2	8.3600	For Germany
1	4	T₁₈	8.3600	Prosperity
2	4	T ₁₇	66.2066	<i>Spirit</i>
1	4	T ₁₈	8.3600	<i>Prosperity</i>
1	3	T₁₉	74.5666	Work Ethics

Table A1.3*Extraction of Termini from the O-mesh*

<i>X</i>	<i>Y</i>	<i>A-component</i>	<i>O-component</i>	<i>English</i>	<i>Fusion</i>
		<i>Pendulum</i>	<i>Destination</i>	<i>Extraction</i>	<i>Value (q)</i>
1	1	T ₁ : 1 → 2	T _{O1}	Insistence	6.9708
3	1	T ₂ : D → 3	T _{O2}	Essential	3.4854
3	2	T ₃ : T _{A2} → T _{A1}	T _{O3}	Self-understanding	10.4562
5	1	T ₄ : 4 → 5	T _{O4}	Integral Component	7.7244
7	1	T ₅ : D → 6	T _{O5}	Virtue of being	3.8622
7	2	T ₆ : T _{A5} → T _{A4}	T _{O6}	Goodwill	11.5866
7	3	T ₇ : T _{A6} → T _{A3}	T _{O7}	Safeguarding	22.0428
7	5	T ₈ : 7 → 8	T _{O8}	Reconciliation	7.1415
1	4	T ₉ : 9 → 10	T _{O9}	Open Democracy	7.2494
5	5	T ₁₀ : T _{A9} → T _{A8}	T _{O10}	United Future	14.3909
4	5	T ₁₁ : T _{A10} → T _{A7}	T _{O11}	Confidence	36.4337
2	7	T ₁₂ : 11 → 12	T _{O12}	Flip Sides	7.85
1	6	T ₁₃ : 13 → 14	T _{O13}	Destiny	7.85
2	5	T ₁₄ : T _{A13} → T _{A12}	T _{O14}	Predetermined Future	15.70
2	4	T ₁₅ : T _{A14} → T _{A11}	T _{O15}	Interconnectedness	52.1337
1	3	T ₁₆ : D → 15	T _{O16}	Predestination	4.7838
2	3	T ₁₇ : T _{A16} → T _{A15}	T _{O17}	Spirit	56.9175

Appendix 2

Table A2.1

Intervals and Radians of Alpha and Beta Variables

Case	Interval	Alpha	Beta
1	1	3.925000	4.898399
2	1	3.925000	4.678600
1	2	4.835610	-13.960900
2	2	3.301000	-6.832730
3	2	0.955792	6.114600
4	2	0.955792	5.456699
5	2	0.955792	5.340600
1	3	4.458800	4.584399
1	4	4.333200	2.918742
2	4	4.333200	4.533200
3	4	4.333200	4.068810
1	1	3.925000	4.898399
2	1	3.925000	4.678600
1	2	4.835610	-13.960900
2	2	3.301000	-6.832730
3	2	0.955792	6.114600
4	2	0.955792	5.456699
5	2	0.955792	5.340600
1	3	4.458800	4.584399
1	4	4.333200	2.918742
2	4	4.333200	4.533200
3	4	4.333200	4.068810
1	1	3.925000	4.898399
2	1	3.925000	4.678600

Table A2.2

Transformation of Beta Variables

X	Y	Node	Value	Transformation
0	1	1	4.8984	Lead a country like Britain
1	0	2	4.6786	A strong
1	1	T₁	9.5770	Determined Leadership
2	0	5	6.1146	Lead in world affairs
3	0	6	5.4567	In good times
3	1	T₂	11.5713	Cross Efficiency
4	0	D	0	
5	0	7	5.3406	And in bad
5	1	T₃	5.3406	Inadequate Standard
3	1	T ₂	11.5713	Cross Efficiency
5	1	T ₃	5.3406	Inadequate Standard
5	2	T₄	16.9119	Accountability
1	1	T ₁	9.5770	Determined Leadership
5	2	T ₄	16.9119	Accountability
5	3	T₅	26.7889	Lead on Purpose
7	8	D	0	
6	8	8	4.5844	Is always reliable
6	7	T₆	4.5844	Resistance to Failure
5	3	T ₅	26.7889	Lead on Purpose
6	7	T ₆	4.5844	Resistance to Failure

6	6	T₇	31.3733	Successful Compensation
5	8	10	4.5332	Touch of iron
4	8	11	4.0688	About you
4	7	T₈	8.6020	Leadership Style
6	6	T ₇	31.3733	Successful Compensation
4	7	T ₈	8.6020	Leadership Style
4	6	T₉	39.9753	Superiority
3	8	D	0	
2	8	9	2.918742	Have a(...)
2	7	T₁₀	2.918742	Iron Gait
4	6	T ₉	39.9753	Superiority
2	7	T ₁₀	2.918742	Iron Gait
2	6	T₁₁	42.894042	Overpowering
0	6	D	0	
0	5	4	-6.91272	Taken a(...)
1	5	T₁₂	-6.91272	Largest Empire
2	6	T ₁₁	42.894042	Overpowering
1	5	T ₁₂	-6.91272	Largest Empire
2	5	T₁₃	35.981322	Global Government
0	4	D	0	
0	3	3	-14.1208	Has(...)
1	3	T₁₄	-14.1208	Empire Reclaiming
2	5	T ₁₃	35.981322	Global Government
1	3	T ₁₄	-14.1208	Empire Reclaiming
2	3	T₁₅	21.860522	Reshaping Power

Table A2.3*Extraction of termini from the O-mesh*

<i>X</i>	<i>Y</i>	<i>A-component</i>	<i>O-component</i>	<i>English</i>	<i>Fusion</i>
		<i>Pendulum</i>	<i>Destination</i>	<i>Extraction</i>	<i>Value (q)</i>
1	1	T ₁ : 1 → 2	T _{O1}	Determined Leadership	7.85
3	1	T ₂ : 3 → 4	T _{O12}	Largest Empire	8.131
3	2	T ₃ : T _{A2} → T _{A1}	T _{O4}	Accountability	15.981
5	1	T ₄ : D → 8	T _{O6}	Resistance to Failure	4.4588
5	2	T ₅ : T _{A4} → T _{A3}	T _{O3}	Inadequate Standard	20.4398
5	7	T ₆ : 9 → 10	T _{O8}	Leadership Style	8.6664
3	7	T ₇ : D → 11	T _{O8}	Leadership Style	4.3332
3	6	T ₈ : T _{A7} → T _{A6}	T _{O6}	Resistance to Failure	12.9996
3	5	T ₉ : T _{A8} → T _{A5}	T _{O7}	Successful Compensation	33.4394
1	6	T ₁₀ : 5 → 6	T _{O2}	Cross Efficiency	1.91584
1	4	T ₁₁ : D → 7	T _{O3}	Inadequate Standard	0.955792
2	4	T ₁₂ : T _{A11} → T _{A10}	T _{O10}	Iron Gait	2.867376
3	4	T ₁₃ : T _{A12} → T _{A9}	T _{O11}	Overpowering	36.306776